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**U.S. Army Corps of Engineers
Omaha District
Monthly Drought Report
October 2007**



**US Army Corps
of Engineers
Omaha District**

Table of Contents

Current Conditions	3
Drought Outlook	10
Ft. Peck, Montana	
Reservoir Elevation Overview	13
Water Intake Overview	14
Access Overview	14
Noxious Weeds Overview	14
Cultural Resources Overview	14
Garrison, North Dakota	
Reservoir Elevation Overview	15
Water Intake Overview	16
Access Overview	20
Boat Ramp Information	21
Noxious Weeds Overview	23
Cultural Resources Overview	23
Other Areas of Interest/Concern	23
Oahe, South Dakota	
Reservoir Elevation Overview	24
Water Intake Overview	25
Access Overview	26
Noxious Weeds Overview	27
Cultural Resources Overview	27
Mainstem Reservoir Information, Weekly Elevation Comparison 3 SEPT 2007 through 24 SEPT 2007	28
Mainstem Reservoir Storage Comparison Water Years 2004, 2005, 2006, 2007	
Ft. Peck, MT	29
Garrison, ND	30
Oahe, SD	31

Cover Photo: Lake Oahe near Ft. Yates, ND (October 2007).

CURRENT CONDITIONS

A review of the drought indicators presented in this report indicates that conditions in the Upper Missouri River Basin continue to improve. According to the U.S. Drought Monitor, the most severe drought conditions being experienced at this time is “moderate drought” in portions of Montana, North Dakota and southwest South Dakota. The upper three mainstem reservoirs, however, continue to operate well below their designated conservation pools. Specifically, Ft. Peck is 33.9 feet below, Garrison is 23.8 feet below, and Oahe is 26.5 feet below the top of conservation pool, respectively. Also, it appears that no municipal intakes on the reservoirs are in jeopardy of running out of water in the foreseeable future.

Precipitation Departures

Precipitation departures from normal during the last 72 months for the United States are shown in Figure 1. The figure indicates that large portions of the basin continue to trend towards “normal”.

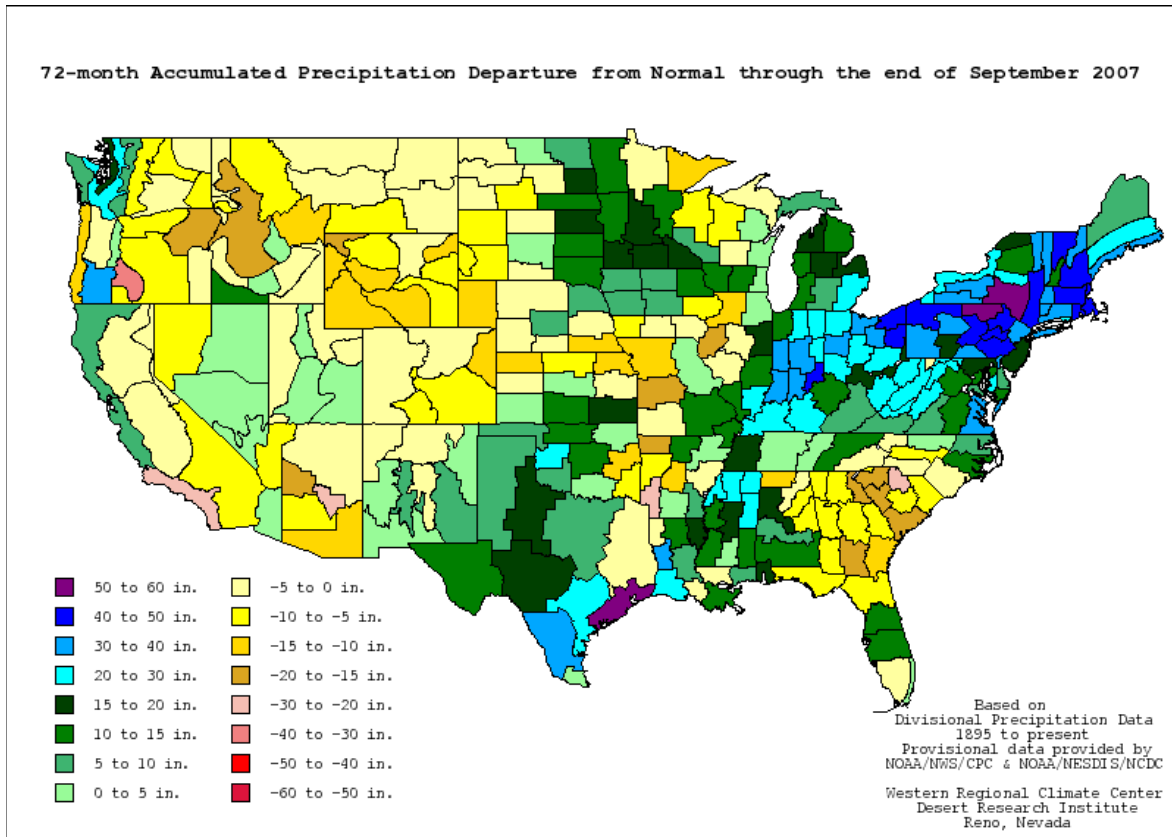


Figure 1 – 72 month Precipitation Departure From Normal

<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep72>

Figure 2 indicates that the basin is beginning to trend towards normal to surplus precipitation amounts.

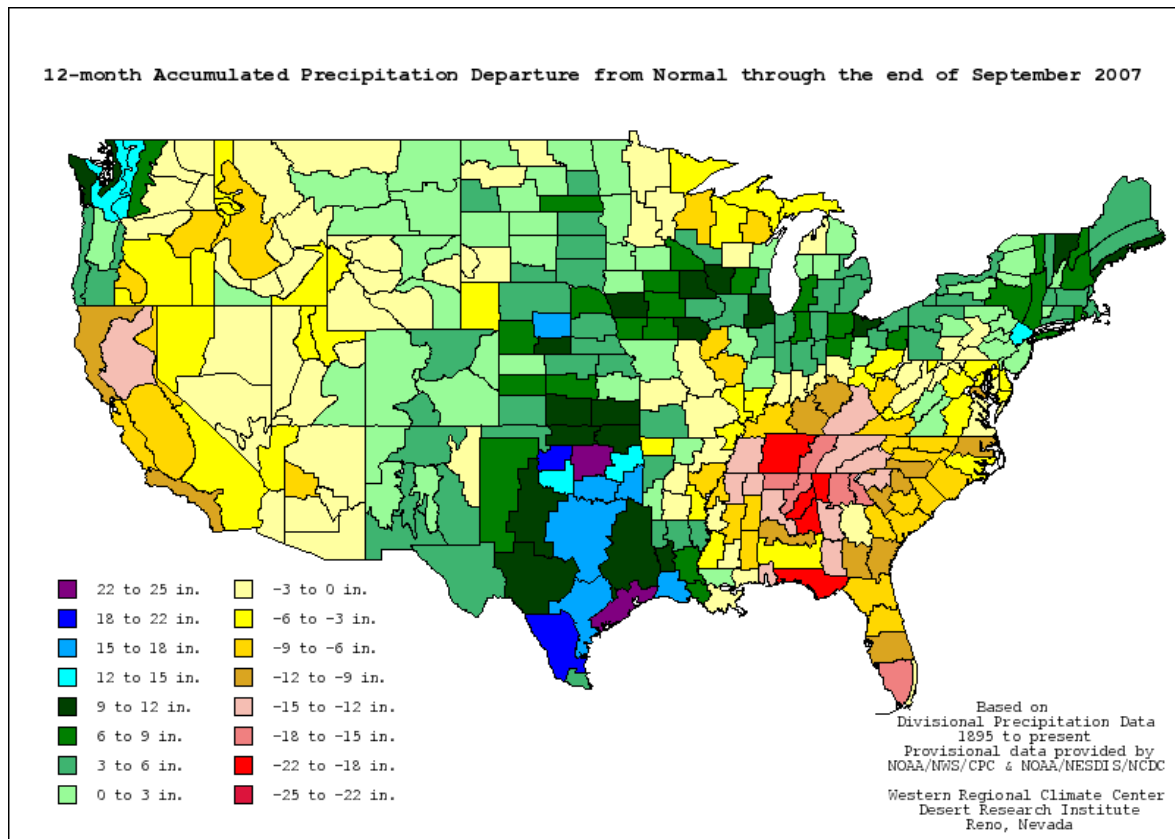


Figure 2 – 12 month Precipitation Departure From Normal

<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep12>

The three-month period (Figure 3) shows that much of the basin is trending towards “normalcy” or even a surplus of moisture.

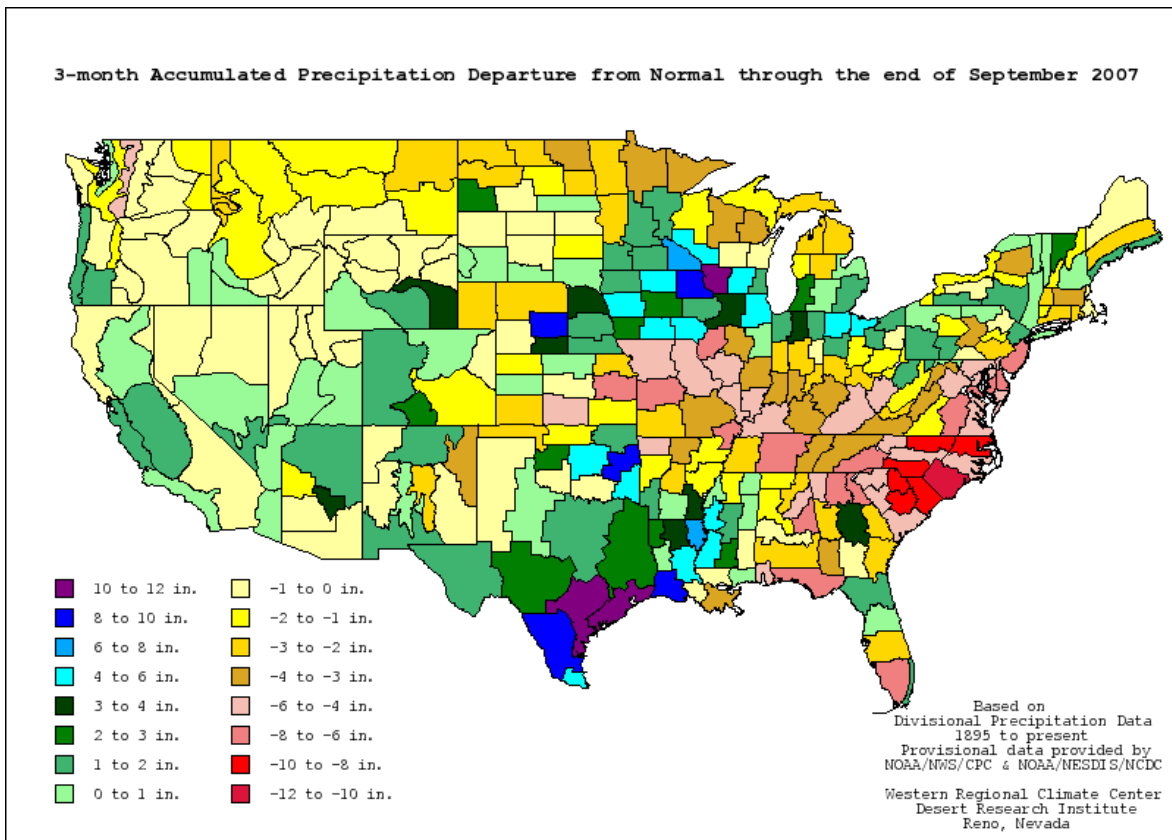


Figure 3 – 3 month Precipitation Departure From Normal

<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep03>

For the month of September, generally, the basin received nearly average rainfall, which is indicated in the following figure (Figure 4).

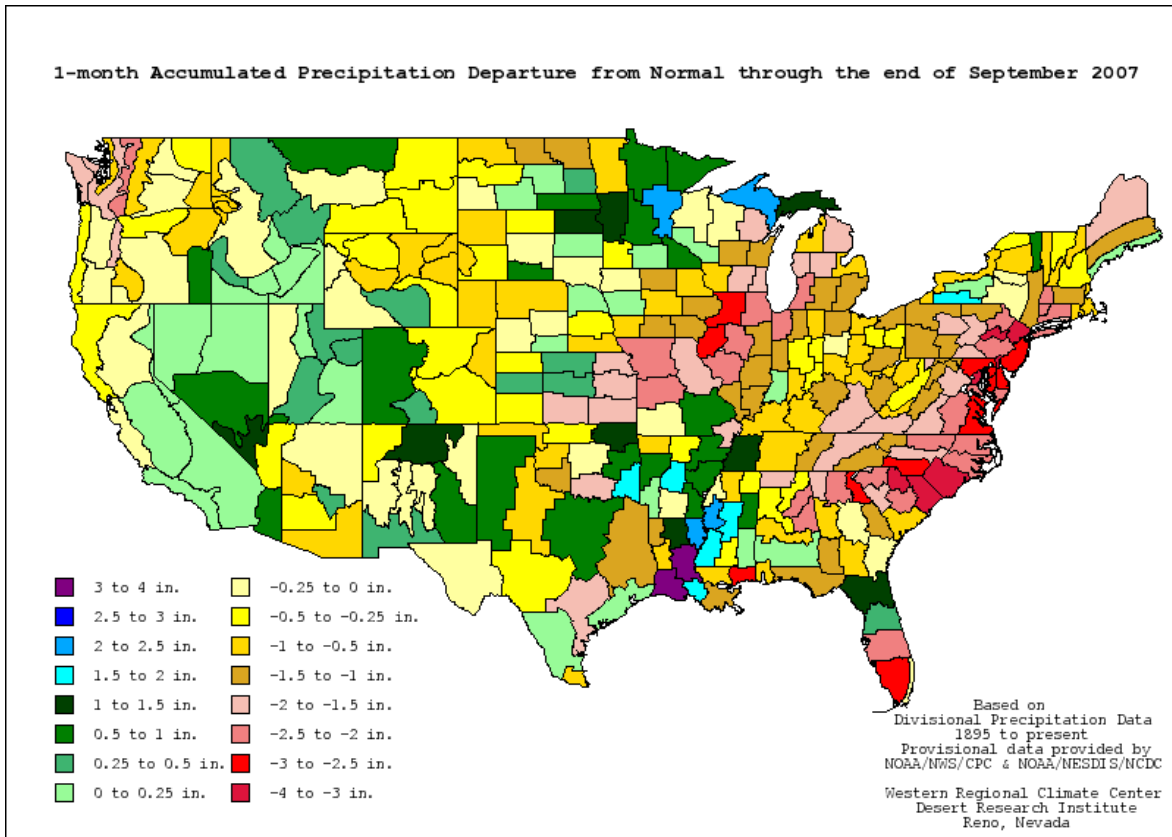


Figure 4 – 1 month Precipitation Departure From Normal

<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep01>

Drought Indicators

The Palmer Drought Severity Index and the Drought Monitor are two commonly used drought-indicator products that convey both short-term and long-term drought conditions and impacts. Both the Palmer Index and Drought Monitor depict some regions exhibiting varying degrees of drought in Nebraska, South Dakota, Wyoming, and Montana, which have been suffering from drought since 2000.

Palmer Drought Severity Index

The Palmer Drought Severity Index (PDSI) is a meteorological drought index that monitors the hydrologic water balance including the basic terms such as precipitation, evapotranspiration, soil recharge, runoff, and moisture loss. The purpose of this index is to provide standardized measurements of the moisture balance in a region without taking into account streamflow, lake and reservoir levels, and other hydrologic impacts. PDSI is a multi-month drought index; therefore, it responds well and is more suitable for short-term droughts.

Changes to the PDSI are more immediate in response to heavy precipitation over short periods. Figure 5 indicates that large portions of the basin is receiving near normal or even a surplus of short-term moisture.

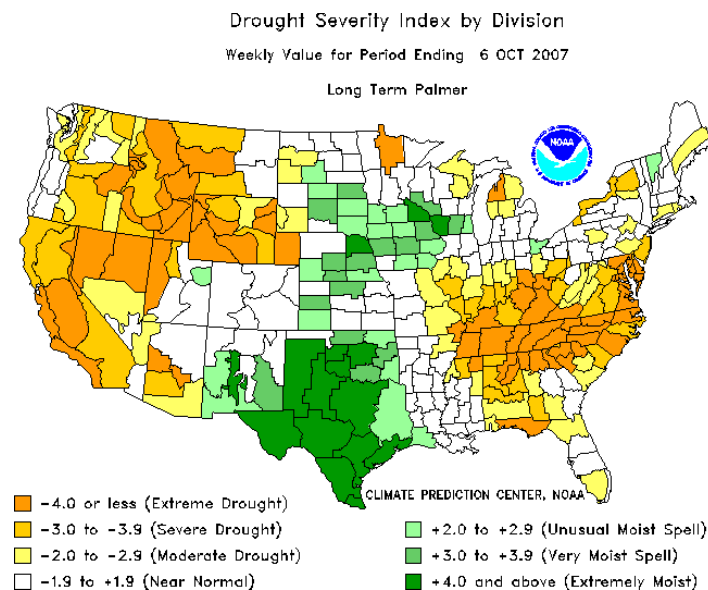


Figure 5 – Long-Term Palmer Drought Indicator Ending 6 October 2007

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif

Drought Monitor

The Drought Monitor is a multi-agency comprehensive drought classification scheme updated weekly by the National Drought Mitigation Center. The Drought Monitor combines information from the Palmer Drought Index, the Climate Prediction Center's soil moisture model, USGS weekly streamflow percentiles, the standard precipitation index, the crop moisture index, and during the snow season basin snow water content, basin average precipitation, and the surface water supply index. Since this product considers streamflow conditions and reservoir water supply, and it allows manual adjustment; it is a good depiction of long-term drought impacts to the affected areas. The Drought Monitor uses four levels of drought classification (moderate, severe, extreme, and exceptional), and it notes the type of impact caused by the drought (agricultural and hydrologic).

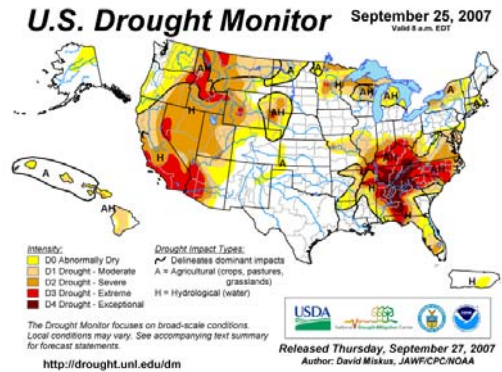
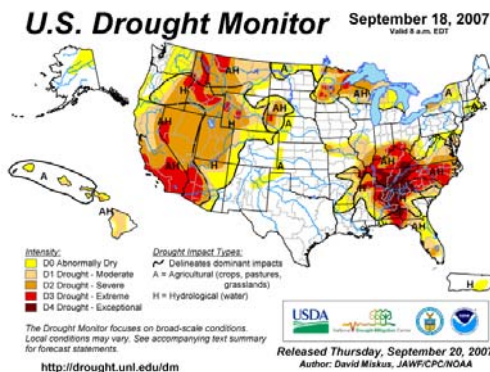
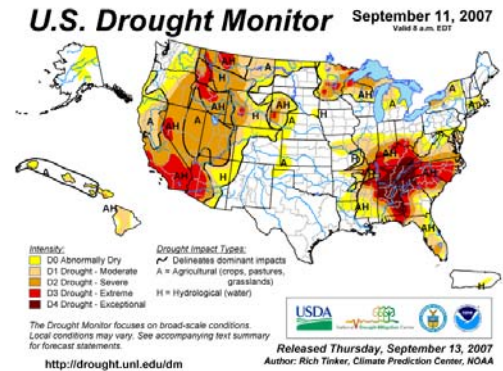
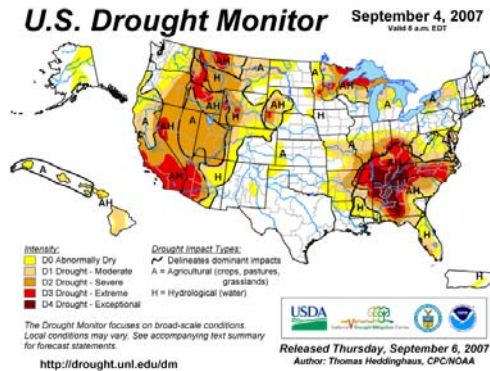


Figure 6 – U.S. Drought Monitor – September 4, 2007 through September 25, 2007

<http://www.drought.unl.edu/dm/monitor.html>

Weekly Precipitation Need

Figure 8 is the weekly precipitation needed to reduce the current Palmer Drought Severity Index value to -0.5 or near normal conditions.

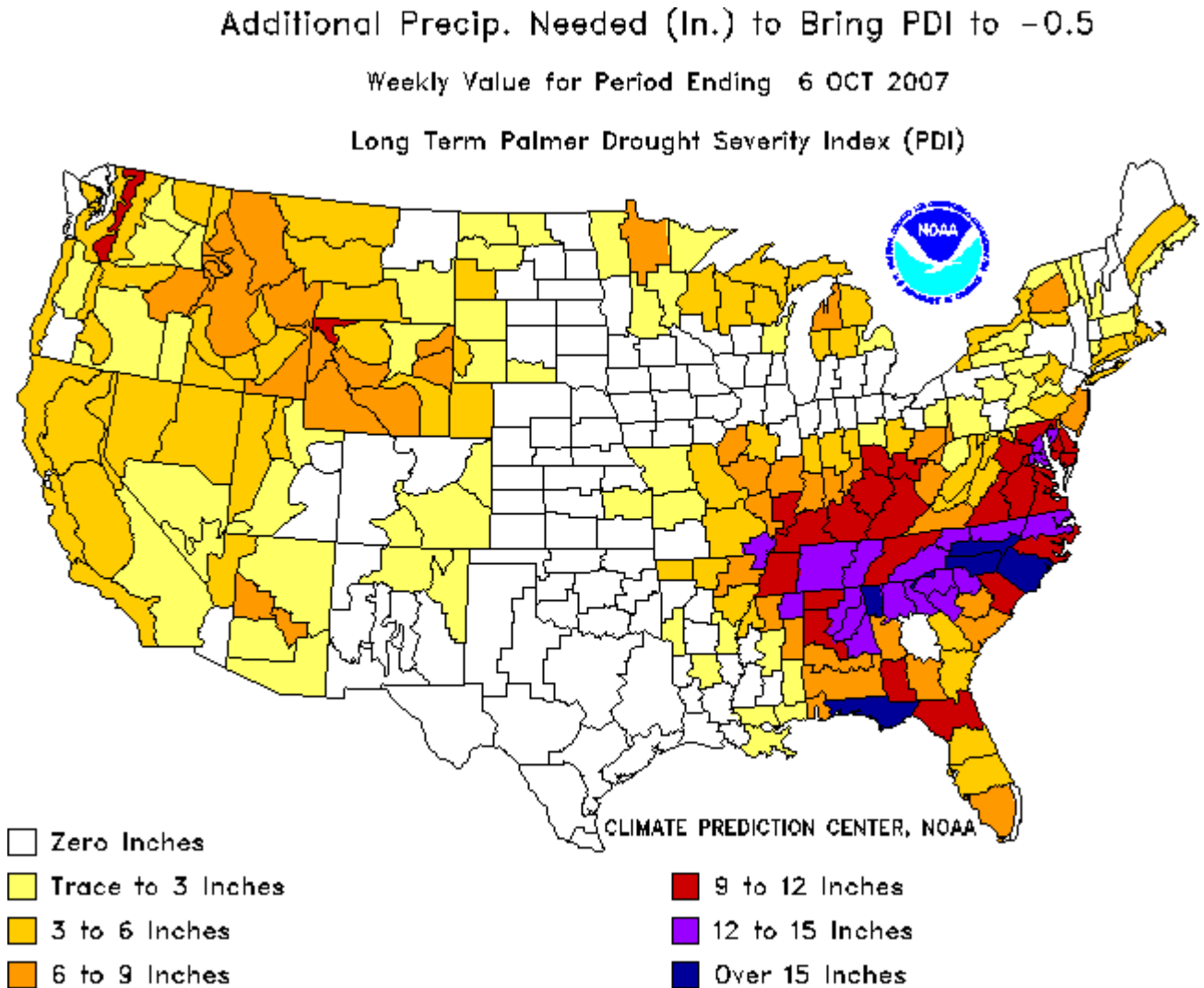


Figure 8 – Weekly Precipitation Need to Bring PDI to -0.5

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/addpcp.gif

Mainstem Reservoir Information

During the month of September, two of the three upper Missouri River mainstem reservoirs decreased in elevation;. Specifically, Ft. Peck lost 0.7-feet, Garrison lost 1.0-feet, while Oahe gained 0.8-feet.

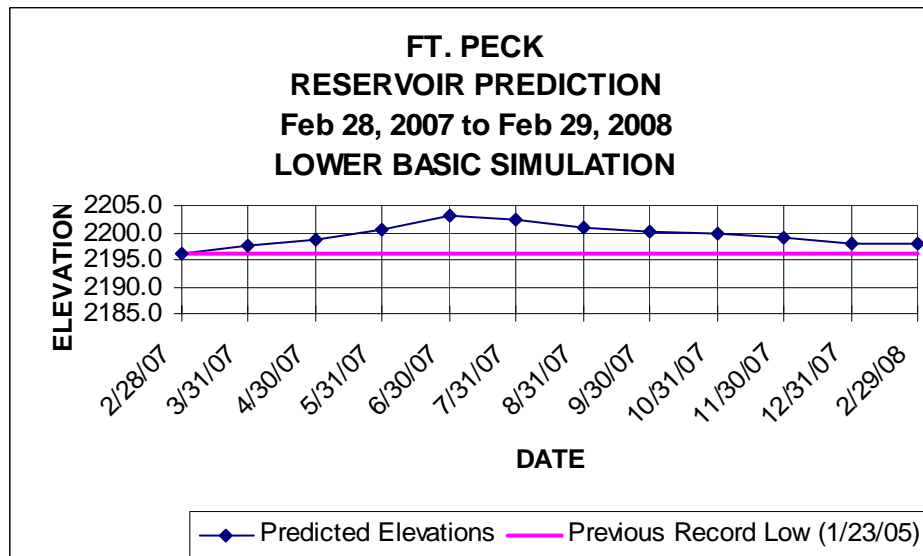
Fort Peck, Montana

Reservoir Elevation Overview

Lake Elevation 09/30/2006 (ft. msl)	Current Lake Elevation 09/30/2007 (ft. msl)	30-Day Projected Elevation (10/31/2007) (ft. msl)	150-Day Projected Elevation (02/29/2008) (ft. msl)
2202.6	2200.1	2199.8	2197.9

Comments:

1. Current reservoir elevation is 33.9-feet below the top of conservation pool (elevation 2234.0 ft. msl).
2. Projections provided are based upon the Lower Basic Simulation prepared by the Reservoir Control Center.
3. Current elevation is 2.5-feet lower than 9/30/06 (2202.6).
4. The elevation of 2196.2 is the current record low.



Water Intake Overview

Intake	Comments
Hell Creek State Park	No issues. Well completed 22 NOV 2004

Access Overview

1. 15 ramps usable; 3 ramps unusable. No permanent ramps operational.
2. \$250,000 programmed for boat ramp extensions/maintenance in FY 2007.
3. Once the reservoir is free of ice, the boat ramps will be extended to provide the most optimum access possible given the current reservoir conditions.

Boat Ramp	Status	Bottom Elevation	Top Elevation	Managing Agency
Fort Peck Marina	USABLE	2197	2250	COE/Concessionaire
Duck Creek	USABLE	2197	2250	COE/MTFW&P
Flat Lake	USABLE	2197	2250	COE
Rock Creek (North Fork)	USABLE	2197	2250	COE/MTFW&P
Rock Creek Marina	USABLE	2197	2250	Concessionaire
Nelson Creek	UNUSABLE	2220 (Cannot Be Extended)	2250	COE
Hell Creek	USABLE	2197	2250	COE/MTFW&P
Devils Creek	USABLE	2197	2250	COE
Crooked Creek	UNUSABLE	2223 (Cannot Be Extended)	2250	Concessionaire
Fourchette	UNUSABLE	2204 (Cannot Be Extended)	2250	COE
Bone Trail	USABLE	2197	2250	COE
Pines	USABLE	2197	2250	COE
James Kipp	USABLE	Missouri River, Upstream of Dam		BLM
Floodplain	USABLE	Missouri River, Below Dam		COE
Roundhouse Point	USABLE	Missouri River, Below Dam		COE
Nelson Dredge	USABLE	Missouri River, Below Dam		COE
Trout Pond	USABLE	Missouri River, Below Dam		MTFW&P
Rock Creek West	USABLE	Missouri River, Upstream of Dam		USFWS

Noxious Weeds Overview

1. As the reservoir elevation dropped, the noxious weeds spread along the shoreline.
2. Main concern is Saltcedar, which thrives along the shoreline as the reservoir elevation declines.
3. \$200,000 programmed for noxious weed control in FY 2007.

Cultural Resources Overview

1. No issues to date.

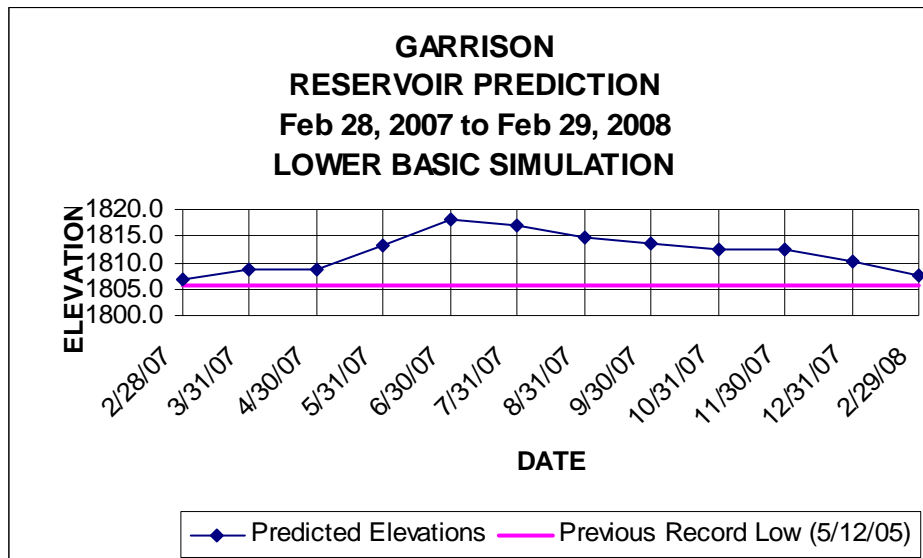
Garrison, North Dakota

Reservoir Elevation Overview

Lake Elevation 09/30/2006 (ft. msl)	Current Lake Elevation 09/30/2007 (ft. msl)	30-Day Projected Elevation (10/31/2007) (ft. msl)	150-Day Projected Elevation (02/29/2008) (ft. msl)
1809.6	1813.7	1812.6	1807.4

Comments:

1. Current reservoir elevation is 23.8-feet below the top of conservation pool (elevation 1837.5 ft. msl).
2. Projections provided are based upon the Lower Basic Simulation prepared by the Reservoir Control Center.
3. Current reservoir elevation is 4.1-feet higher than elevation on 09/30/06 (1809.6).
4. Record low for the reservoir is 1805.76 on May 12, 2005.



Water Intake Overview

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Whiteshield	Operational	1813.7	1787	1805	1794	1796	720	N	TAT/BOR

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005. The intake was extended and lowered 2-feet since the Corps' survey in 2005.
2. Operation concern level corresponds to previous record lows where erosion of newly exposed shoreline may cause problems with erosion at the intake.

Future Plans:

1. Contract awarded to Northern Improvement to install a new intake. The new intake will be installed at elevation 1763.0±, lowering the intake 24-feet below its current elevation. The project is scheduled to be completed by July of 2007.
2. Project design includes a 950-feet bored pipeline into the lake at elevation 1763. The line will be 24" polyethylene pipe. New SCADA control and pumps are included in the project design. The Title of the project is: "FBRW 2006A; East Segment Intake Replacement".
3. FBRW has the option of discontinuing existing system or keeping the system in operation as a backup.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Twin Buttes	Operational	1813.7	1784.4	1805	1788	1790	425	N	TAT/BOR

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
2. Erosion due to low reservoir levels have caused increased sediment in the intake piping. This has increased maintenance cost to remove the sediment and increased the cost of treating the water.

Future Plans:

1. A contract to install a new intake at elevation 1741.0, 41 feet below the current screen elevation was awarded to Northern Improvement. Work was started in October 2006 and will be completed by July 2007.
2. Project design includes an 800-foot bored pipeline into the lake at elevation 1741. The line will be a 24" polyethylene pipe. New SCADA control and pumps are included in the design. The title of the project is: "FBRW 2006 C; South Segment Intake Replacement".
3. FBRW has the option of discontinuing existing system or keeping the system in operation as a backup.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Mandaree	Operational	1813.7	1786	1789.0	1789	1794	780	N	TAT/BOR

Comments:

1. The new intake screen is at elevation 1786.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Four Bears	Operational	1813.7	1789.9	1800.0	1792	1794	900	N	TAT/BOR

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
2. Erosion due to low reservoir levels have caused increased sediment in the intake piping. This has increased maintenance cost to remove the sediment and increased the cost of treating the water.

Future Plans:

1. A contract to install a new intake at elevation 1785.0 was awarded to Northern Improvement. Work was started in October 2006 and will be completed by July 2007.
2. The project design includes 1,160-feet of 24-inch polyethylene pipe bored into the reservoir. The design includes SCADA control and new pumps.
3. FBRW has the option of discontinuing existing system or keeping the system in operation as a backup.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Parshall	Operable	1813.7	1803.6*	1806.6	1797.5	1801.5	1000	N	Parshall

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
2. The City had a telescoping riser attached to the intake by 30 July 2005. The riser extended the intake to within 3- to 4-feet of the water's surface.
3. Require at least 3 feet of water over the intake for proper operation.
4. Water quality at current level is good following water treatment.
5. Technical Assistance Report was completed by the Corps of Engineers for Parshall in December 2006.
6. A backup well is available for use should the intake fail. The well has been used successfully in the past.

Future Plans:

1. Discussions have been held between Parshall and New Town regarding future water supply. No formal decisions have been reached. Parshall is a proposed supplier for the Rural Water System.

*Screen is raised or lowered according to reservoir elevations.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Pick City	Operational	1813.7	1795	1800	1798	1800	200		Pick City

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
2. At least 5-feet of water is necessary to operate this intake. If continued usage is planned, the intake will have to be lowered.

Future Plans:

1. Rural water is available to the City, however, they have chosen to continue using their intake until the water no longer meets State Health Standards or work is required on their intake.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Garrison	Operational	1813.7	1787.2	1805	1792	1792	1830	N	Garrison

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
2. A regulatory permit was currently issued for the reinstallation of existing 950-feet of 8" poly pipe and installation of new 250-feet of 8" poly pipe to extend the intake system.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
SW Pipeline	Operational	1813.7	1779.0	1782	1776		34,000	N	SW Pipeline

Comments:

1. This system provides water for the City of Dickinson, Antelope Valley Power Plant, Coal Gasification Plant, and the Southwest Water Authority.

Access Overview

1. Ft. Stevenson State Park Marina received \$10,000,000 in funding. The current schedule has a functional marina in the Spring/Summer of 2009.
2. The Ft. Stevenson Marina project advertised for bids July 9, 2007 and the bid opening is scheduled for August 10, 2007.
3. \$250,000 programmed for boat ramp extensions/maintenance.

The following table provides the updated boat ramp status on Lake Sakakawea.

Updated 10/5/2007

Reservoir Elevation 09/30/07 – 1813.7

Location	Type	Top Elevation	Bottom Elevation	Comments	Managing Agency	Contact Person	Phone
Beaver Bay (low-water-COE)	poured concrete	1829	1808	Unusable	Corps of Engineers	Linda Phelps	654-7411
Beulah Bay	poured concrete	1852.4	1799	Usable	Beulah Park Board	Bev Sullivan	873-5852
Camp of the Cross	Slide-in metal sections	1819	1806	Usable	Lutheran Bible Camp	Larry Crowder	337-2246
Charging Eagle Bay (1st low water)	poured concrete	1829.2	1810.6	Unusable (Can be extended)	Three Affiliated Tribes	Jim Mossett	880-1203
Dakota Waters Resort (low-water)	poured concrete, planks	1853.4	1802.6	Usable	Beulah Park Board	Kelvin Heinsen	873-5800
Deepwater Creek (2nd low water)	concrete planks & metal	1820	1805.5	Usable	Corps of Engineers	Linda Phelps	654-7411
Deepwater Creek (1st low water)	poured concrete	1838.5	1809	Unusable	Corps of Engineers	Linda Phelps	654-7411
Douglas Creek (low water)	poured concrete, planks	1831	1790	Usable	Corps of Engineers	Linda Phelps	654-7411
Fort Stevenson State Park (low water)	poured concrete	1821.8	1790	Usable	ND Parks & Rec	Dick Messerly	337-5576
Four Bears Park (south low water)	concrete planks	1820.7	1805.5	Usable	Three Affiliated Tribes	Alan Chase	627-4018
Garrison Creek Cabin Site	poured concrete	1857	1802	Usable	Garrison Cabin Assoc.	Percy Radke	337-2247
Government Bay (low water)	slide-in metal sections	1815	1803	Usable	Corps of Engineers	Linda Phelps	654-7411
Government Bay (main ramp)	poured concrete	1857	1810	Unusable	Corps of Engineers	Linda Phelps	654-7411
Hazen Bay (2nd low water)	poured concrete	1830.6	1808	Unusable	Hazen Park Board	Mannie Hendrickson	748-5958
Indian Hills (2nd low water)	concrete planks	1817.6	1807	Unusable	Parks & Rec/Tribes	Kelly Sorge	743-4122
Indian Hills (3 rd low water)	Will need to reinstall	1810	1795				
McKenzie Bay (east ramp)	poured concrete	1850.9	1796	Usable	McKenzie Marine Club	Rhonda Logan	579-3366

Location	Type	Top Elevation	Bottom Elevation	Comments	Managing Agency	Contact Person	Phone
New Town (proposed ramp)	slide-in metal sections	1819.0	1806.0	Usable	New Town Park Board	Dusty Rhodes	627-3900
Parshall Bay (2nd low-water)	slide-in metal sections	1817.8	1808.5	Unusable	Mountrail County Park Board	Clarence Weltz	627-3377
Pouch Point (3rd low-water)	slide-in metal sections	1819	1807	Unusable	Three Affiliated Tribes	Paul Danks	627-3627
Pouch Point (2nd low-water)	poured concrete	1834.8	1813	Unusable	Three Affiliated Tribes	Paul Danks	627-3627
Reunion Bay (2nd low water)	concrete planks	1826.6	1808	Unusable	Corps of Engineers	Linda Phelps	654-7411
Sakakawea State Park (main)	poured concrete	1850	1800	Usable	ND Parks & Rec	John Tunge	487-3315
Sakakawea State Park (low water)	will need to finish ramp	1807	1790				
Sanish Bay (Aftem) (low water)	poured concrete	1830.8	1807.4	Unusable	Aftem Lake Development	Gerald Aftem	852-2779
Skunk Creek Recreation Area (main)	poured concrete	1840	1806.5	Usable	Three Affiliated Tribes	Ken Danks	290-2841
Sportsmen's Centennial Park	poured concrete	1831.6	1808.5	Unusable	McLean County	Les Korgel	462-8541
Sportsmen's Centennial Park (2nd low water)	slide-in metal sections	1810	1795	Usable			
Steinke Bay	poured concrete	1833.1	1813.4	Unusable	North Dakota Game & Fish	Bob Frohlich	328-6346
Van Hook (Gull Island south low- water)	metal bridge deck sections	1817.8	1805	Usable	Mountrail County Park Board	Clarence Weltz	627-3377
Van Hook (west low water ramps)	poured concrete	1821.2	1808	Unusable	Mountrail County Park Board	Clarence Weltz	627-3377
White Earth Bay (main)	poured concrete	1850.9	1801	Usable	Mountrail County Park Board	Greg Gunderson	755-3277
Wolf Creek Recreation Area (1st low water)	poured concrete	1833.8	1802.5	Usable	Corps of Engineers	Linda Phelps	654-7411

Noxious Weeds Overview

1. Project personnel are continuing efforts to combat noxious weeds.
2. \$440,000 programmed for noxious weed control in FY 2007.

Cultural Resources Overview

1. Corps and Tribal personnel continue to monitor the shoreline for exposure of cultural site and opportunities for protection of sites.
2. Stabilization efforts are underway at two sites on Lake Sakakawea. An additional stabilization is possible depending on funds availability.
3. A sizeable inventory will be conducted on part of the Lake during this fiscal year. Results will assist in accurately identifying sites on and away from the shoreline.

Other Areas of Interest/Concern

1. Garrison National Fish Hatchery – Three issues exist and are of concern to the State of North Dakota and the U.S. Fish and Wildlife Service.
 - a. Addition of a fifth boiler and necessary power for operation.
 - b. Ability to fill 40 rearing ponds.
 - c. Adequacy of the existing 20-inch water supply line from the penstocks.
2. Fact sheets for the hatchery issues exist. OP-TM is investigating a design for additional power requirements to the hatchery. An MOU may need to be set up to address future operating needs and requirements.
3. Garrison Cold Water Fishery – The lower portion of the intake for Unit 1 was blocked during the week of May 14, 2007. The underwater inspection of the existing plywood barriers, utilizing a remote operated camera, and the removal of one of the trash racks to perform a physical inspection to ensure integrity of the plywood, j-bolts, etc. showed that the materials were in excellent condition.
4. Based on review of the data gathered from the new instrumentation, the elevation restriction between Lake Audubon and Garrison reservoir was lifted. Also, water was pumped from Lake Sakakawea into Lake Audubon to bring the lake back to its historic normal elevation.

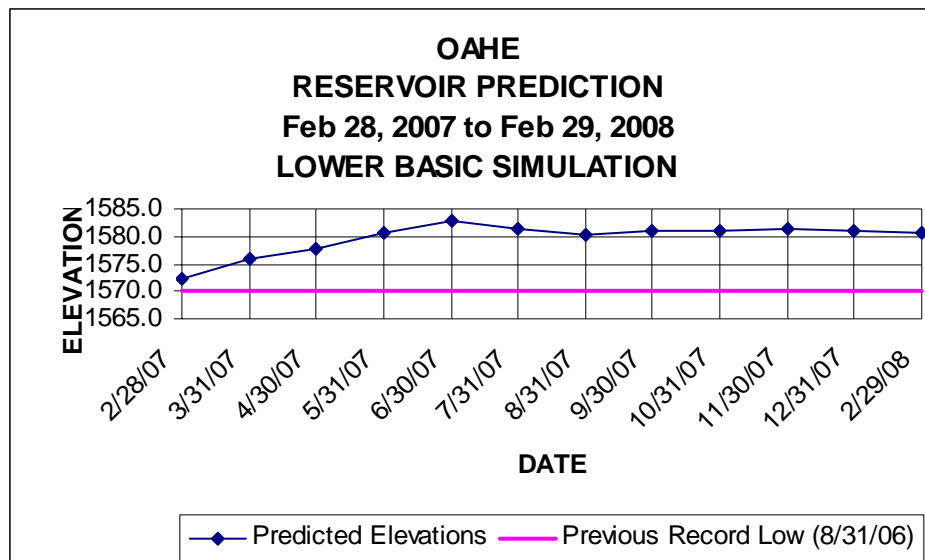
Oahe, South Dakota

Reservoir Elevation Overview

Lake Elevation 9/30/2006 (ft. msl)	Current Lake Elevation 09/30/2007 (ft. msl)	30-Day Projected Elevation (10/31/2007) (ft. msl)	180-Day Projected Elevation (02/29/2008) (ft. msl)
1571.5	1581.0	1580.9	1580.7

Comments:

1. Current reservoir elevation is 26.5-feet below the top of conservation pool (elevation 1607.5 ft. msl).
2. Projections provided are based upon the Lower Basic Simulation prepared by the Reservoir Control Center.
3. Current reservoir elevation is 9.5-feet higher than 09/30/06 (1571.5).
4. Record low for the reservoir is 1570.17 on August 31, 2006.



Water Intake Overview

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Ft. Yates	Operational	1581.0	1571.2	1573	1572.2*	1575.2*	3,400	Y	SRST/BOR

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
 2. A backup well has been drilled and tested.
 3. New well and plumbing is installed at Fort Yates and can be used as a backup water source.
- *Intake is in riverine conditions and flow to the intake may be influenced by releases from Garrison reservoir.

Future Plans:

1. The intake at Fort Yates remains in a river condition and may continue to have sedimentation problems as long as Oahe remains below elevation 1580. Sediment levels in the sump are measured weekly and the river channel is monitored.
2. Contingency plans are in place and have been exercised.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Wakpala	Operational	1581.0	1563	1563	1566	1569	>500	N	SRST/BOR

Comments:

1. Top of Screen Elevation taken from survey completed by the Corps in 2005, a new low profile screen was installed lowering the top of the screen elevation to 1563, this elevation was confirmed in February 2007.
2. Contingency plans are being drafted to respond to an intake failure. Initial response to an intake failure at Wakpala would be hauling water from the city of Mobridge to the treatment plant to be distributed using the existing transmission lines.
3. Recent forecasts indicate that the reservoir will not fall below elevation 1575.8. Based on this, it is not anticipated that the intake will experience any operational concerns for the foreseeable future.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Resp. Agency
					Summer	Winter			
Mní Wasté	Operational	1581.0	1513.5				14,000	Y(DRAFT)	CRST

Comments:

1. This intake reflects the elevation of the top of screen for the new intake. This information will be removed from the November Drought Report.

Access Overview

1. The State of South Dakota is responsible for maintaining recreational areas and access to the reservoir in South Dakota. The Oahe Project maintains the access in North Dakota. To view ramp status on Oahe in South Dakota, click on the following link:

[Oahe Boat Ramp Status in South Dakota](#)

2. Ramps on Oahe Project in North Dakota:

AREA	Status
Sibley Park	Unusable
Little Heart Bottoms	Unusable
Kimball (Desert)	Marginal
Graner's Bottoms	Usable
Maclean Bottoms	Usable
Hazelton	Usable
Ft. Rice	Usable
North Beaver Bay	Usable
Walker Bottoms	Usable
Jennerville (Rivery)	Usable
Fort Yates	Unusable
Cattail Bay	Unusable
Langeliers Bay	Unusable
Beaver Creek	Unusable
State Line	Unusable

<http://www.gf.nd.gov/boating/mo-riv-system-boatramps-status.html>

Noxious Weeds Overview

1. \$400,000 programmed for noxious weed control in FY 2007.

Cultural Resources Overview

1. Corps and Tribal personnel continue to monitor the shoreline for exposure of cultural site and opportunities for protection of sites.
2. Stabilization efforts are underway at two sites on Lake Oahe. One stabilization project is already completed while the other is scheduled to be completed by the end of summer.

Mainstem Reservoir Information, Weekly Elevation Comparison

3 Sept. 2007								
Project Information			Reservoir Elevation			Reservoir Storage		
Project	Multi-Purpose Pool Elev.	Flood Control Pool Elev.	Current Elevation (9/3/07)	Previous Elevation (8/27/07)	Change	Current Storage (MAC-FT) (9/3/07)	Previous Storage (MAC-FT) (8/27/07)	Change (MAC-FT)
Ft. Peck, MT	2160 - 2246	2246 – 2250	2200.8	2201.0	-0.2	9.107	9.146	-0.039
Garrison, ND	1775 – 1850	1850 – 1854	1814.5	1815.1	-0.6	11.958	12.094	-0.136
Oahe, SD	1540 - 1617	1617 – 1620	1580.1	1580.0	0.1	11.753	11.730	0.023
Big Bend, SD	1415 – 1422	1422 – 1423	1421.0	1421.1	-0.1	1.685	1.682	0.003
Ft. Randall, SD	1320 – 1365	1365 – 1375	1354.1	1355.2	-1.1	3.457	3.560	-0.103
Gavins Point, SD	1204.5 - 1208	1208 - 1210	1207.3	1207.6	-0.3	0.394	0.399	-0.005

10 Sept. 2007								
Project Information			Reservoir Elevation			Reservoir Storage		
Project	Multi-Purpose Pool Elev.	Flood Control Pool Elev.	Current Elevation (9/10/07)	Previous Elevation (9/3/07)	Change	Current Storage (MAC-FT) (9/10/07)	Previous Storage (MAC-FT) (9/3/07)	Change (MAC-FT)
Ft. Peck, MT	2160 - 2246	2246 – 2250	2200.6	2200.8	-0.2	9.073	9.107	-0.034
Garrison, ND	1775 – 1850	1850 – 1854	1814.3	1814.5	-0.2	11.898	11.958	-0.060
Oahe, SD	1540 - 1617	1617 – 1620	1580.5	1580.1	0.4	11.813	11.753	0.060
Big Bend, SD	1415 – 1422	1422 – 1423	1420.7	1421.0	-0.3	1.660	1.685	-0.025
Ft. Randall, SD	1320 – 1365	1365 – 1375	1352.9	1354.1	-1.2	3.361	3.457	-0.096
Gavins Point, SD	1204.5 - 1208	1208 - 1210	1207.5	1207.3	0.2	0.399	0.394	0.005

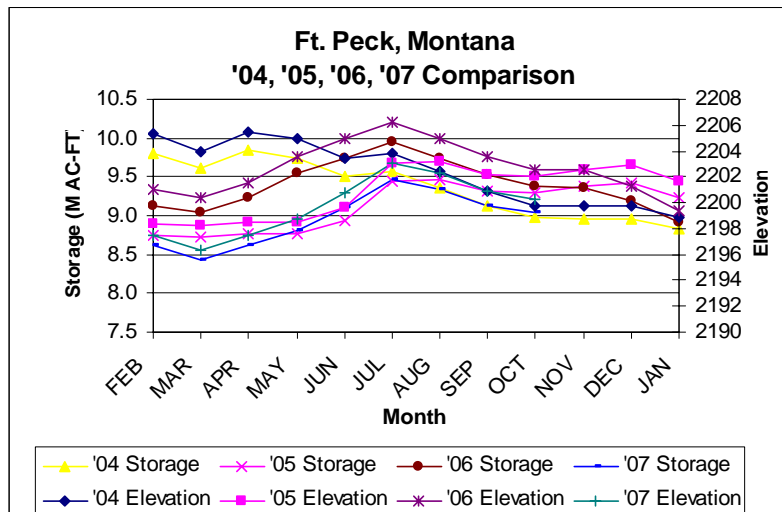
17 Sept. 2007								
Project Information			Reservoir Elevation			Reservoir Storage		
Project	Multi-Purpose Pool Elev.	Flood Control Pool Elev.	Current Elevation (9/17/07)	Previous Elevation (9/10/07)	Change	Current Storage (MAC-FT) (9/17/07)	Previous Storage (MAC-FT) (9/10/07)	Change (MAC-FT)
Ft. Peck, MT	2160 - 2246	2246 – 2250	2200.5	2200.6	-0.1	9.061	9.073	-0.012
Garrison, ND	1775 – 1850	1850 – 1854	1814.0	1814.3	-0.3	11.858	11.898	-0.040
Oahe, SD	1540 - 1617	1617 – 1620	1580.6	1580.5	0.1	11.847	11.813	0.034
Big Bend, SD	1415 – 1422	1422 – 1423	1420.6	1420.7	-0.1	1.657	1.660	-0.003
Ft. Randall, SD	1320 – 1365	1365 – 1375	1350.3	1352.9	-2.6	3.154	3.361	-0.207
Gavins Point, SD	1204.5 - 1208	1208 - 1210	1206.8	1207.5	-0.7	0.379	0.399	-0.020

24 Sept. 2007								
Project Information			Reservoir Elevation			Reservoir Storage		
Project	Multi-Purpose Pool Elev.	Flood Control Pool Elev.	Current Elevation (9/24/07)	Previous Elevation (9/17/07)	Change	Current Storage (MAC-FT) (9/24/07)	Previous Storage (MAC-FT) (9/17/07)	Change (MAC-FT)
Ft. Peck, MT	2160 - 2246	2246 – 2250	2200.3	2200.5	-0.2	9.056	9.061	-0.005
Garrison, ND	1775 – 1850	1850 – 1854	1814.0	1814.0	0.0	11.828	11.858	-0.030
Oahe, SD	1540 - 1617	1617 – 1620	1580.9	1580.6	0.3	11.873	11.847	0.026
Big Bend, SD	1415 – 1422	1422 – 1423	1420.7	1420.6	0.1	1.670	1.657	0.013
Ft. Randall, SD	1320 – 1365	1365 – 1375	1346.9	1350.3	-3.4	2.911	3.154	-0.243
Gavins Point, SD	1204.5 - 1208	1208 - 1210	1206.9	1206.8	0.1	0.382	0.379	0.003

Mainstem Reservoir Storage Comparison – Water Years 2004, 2005, 2006, 2007

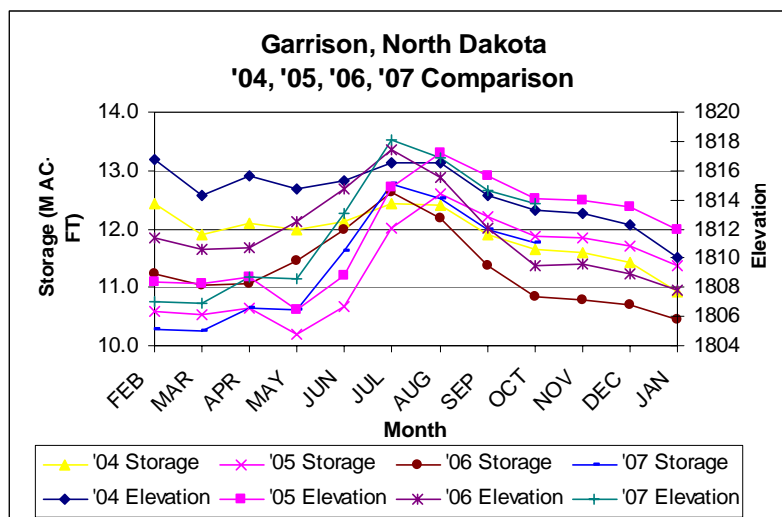
Fort Peck, Montana

Water Year 2004 (FEB 2004 - JAN 2005)		Water Year 2005 (FEB 2005 - JAN 2006)		Water Year 2006 (FEB 2006 - JAN 2007)		Water Year 2007 (FEB 2007 - JAN 2008)	
Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)
2204	9.603	2198.3	8.732	2200.4	9.048	2197.5	8.618
2205.5	9.837	2198.6	8.773	2201.5	9.222	2196.3	8.440
2204.9	9.740	2198.6	8.773	2203.5	9.540	2197.5	8.619
2203.4	9.507	2199.6	8.935	2205.5	9.741	2198.8	8.804
2203.8	9.565	2203.0	9.448	2206.3	9.962	2200.8	9.103
2202.4	9.357	2203.2	9.472	2206.2	9.958	2203.1	9.465
2200.9	9.121	2202.2	9.325	2204.9	9.750	2202.3	9.342
2199.8	8.969	2202.0	9.286	2203.6	9.525	2200.9	9.122
2199.8	8.963	2202.6	9.371	2202.5	9.359	2200.3	9.040
2199.8	8.961	2202.9	9.432	2202.6	9.383		
2198.9	8.829	2201.6	9.223	2199.4	8.913		
2198.5	8.749	2201.0	9.134	2199.4	8.907		



Garrison, ND

Water Year 2004 (FEB 2004 - JAN 2005)		Water Year 2005 (FEB 2005 - JAN 2006)		Water Year 2006 (FEB 2006 - JAN 2007)		Water Year 2007 (FEB 2007 - JAN 2008)	
Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)
1814.3	11.891	1808.2	10.538	1811.4	11.040	1807.0	10.277
1815.6	12.197	1808.7	10.632	1810.6	11.076	1806.9	10.241
1814.7	11.989	1806.6	10.189	1810.7	11.460	1808.7	10.631
1815.3	12.121	1808.8	10.665	1812.5	11.992	1808.6	10.612
1816.5	12.426	1814.9	12.026	1817.3	12.628	1813.1	11.612
1816.5	12.401	1817.2	12.591	1817.4	12.629	1818.1	12.774
1814.3	11.914	1815.8	12.216	1815.5	12.172	1816.9	12.514
1813.3	11.645	1814.1	11.861	1812.1	11.372	1814.6	11.999
1813.1	11.589	1814.0	11.837	1809.5	10.838	1813.7	11.766
1812.3	11.422	1813.5	11.707	1809.6	10.822		
1810.0	10.936	1812.0	11.368	1807.8	10.441		
1808.4	10.574	1811.4	11.222	1807.8	10.439		



Oahe, SD

Water Year 2004 (FEB 2004 - JAN 2005)		Water Year 2005 (FEB 2005 - JAN 2006)		Water Year 2006 (FEB 2006 - JAN 2007)		Water Year 2007 (FEB 2007 - JAN 2008)	
Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)	Elevation	Storage (MAC-Ft.)
1577.6	11.204	1575.2	10.715	1576.8	11.037	1572.9	10.287
1579.2	11.504	1576.2	10.924	1577.6	11.209	1572.3	10.151
1582.1	12.110	1574.29	10.568	1576.7	11.024	1575.8	10.839
1581.6	12.056	1574.82	10.608	1577.4	11.150	1577.7	11.221
1578.4	11.338	1576.47	10.980	1577.0	11.088	1580.5	11.826
1576.8	11.045	1577.6	11.214	1575.8	10.881	1582.8	12.346
1574.3	10.540	1576.38	10.958	1573.4	10.378	1581.4	12.045
1572.1	10.112	1572.6	10.363	1570.3	9.807	1580.1	11.752
1573.2	10.316	1572.63	10.267	1571.4	9.998	1580.9	11.927
1574.8	10.608	1573.9	10.501	1572.6	10.214		
1576	10.866	1575.6	10.814	1572.9	10.263		
1575.8	10.824	1575.3	10.75	1572.8	10.260		

